



CONDUIT AND CABLE SCHEDULE -- STAGE II & III SWITCHGEAR CONTROL & INDICATION						
CKT. DESIG.	FROM	TO	SERVICE	CDT.	WIRE	
SWITCHGEAR -- LOCAL CONTROL CABINET						
LC-1	LOCAL CONTR. CAB.	SWGR. HV-B1	CONTROL	3/4"	1-12/C #14	
LC-2	LOCAL CONTR. CAB.	SWGR. HV-B2	CONTROL	3/4"	1-12/C #14	
LC-3	LOCAL CONTR. CAB.	SWGR. HV-B3	CONTROL	3/4"	1-12/C #14	
LC-4	LOCAL CONTR. CAB.	SWGR. HV-B4	CONTROL	3/4"	1-12/C #14	
SWITCHGEAR -- INTERLOCKING BKRS. HV-B, N, & T						
I-1	SWGR. BKR. T1-3	BKR. HV-B1	240V. A.C.	1-1/2"	1-19/C #14	
I-2	SWGR. BKR. T1-2	BKR. HV-B2	240V. A.C.	1-1/2"	1-19/C #14	
I-3	SWGR. BKR. T3-4	BKR. HV-B3	240V. A.C.	1-1/2"	1-19/C #14	
I-4	SWGR. BKR. T2-4	BKR. HV-B4	240V. A.C.	1-1/2"	1-19/C #14	
I-1-2	SWGR. BKR. T1-3	BKR. T1-4	240V. A.C.	1-1/2"	1-19/C #14 & 3-1/C #14	
I-3-4	SWGR. BKR. T2-4	BKR. T3-4	240V. A.C.	1-1/2"	1-19/C #14 & 3-1/C #14	
REMOTE INDICATION						
T1-I	TRANS'F. TR-1	BKR. N-1	DIP N-1	3/4"	8 #14	
T2-I	TRANS'F. TR-2	BKR. N-2	DIP N-2	3/4"	8 #14	
T3-I	TRANS'F. TR-3	BKR. N-3	DIP N-3	3/4"	8 #14	
T4-I	TRANS'F. TR-4	BKR. N-4	DIP N-4	3/4"	8 #14	
UPS-I	U.P.S.	CB-R1	DIP R-1	3/4"	4 #14	
LC-I	LOCAL CONTROL CAB.	CB-L3	DIP L-3	3/4"	2 #14	
DIGITAL INSTRUMENT PACKAGE (DIP)						
S-1	NOTE: FOR CONNECTION SEE DWG. E-103			3/8"	1-2pr TW SH	
S-2	SCADA COMMUNICATIONS WIRING DIAGRAM			3/4"	2-2pr TW SH	
AUTOMATIC TRANSFER SW. CONTROL CDT.						
C-S	TERM. CAB. #ATS-75A	TERM. CAB. #ATS-75S	120V	1 1/4"	22 #12	
C-13	TERM. CAB. #ATS-75S	ATS-75SR	120V	1"	16 #12	
C-15	TERM. CAB. #ATS-75S	ATS-75SL	120V	1"	16 #12	
C-1S	TERM. CAB. #ATS-75S	EXIST. J.B.	120V	3/4"	4 #12	
C-3S	TERM. CAB. #ATS-75S	SWGR BUS #3	120V	3/4"	8 #12	

SEE DWG. #E-101. PANEL SCHEDULE

PANEL CP-75S CONDUIT AND CABLE SCHEDULE					
CDT. DESIGNATION	CKT. No.	WIRE		TYPE	CONDUIT SIZE
CP-75S-1	1	2 #12	1 #12	XHHW-2 GND.	3/4" C.
CP-75S-2	2	2 #12	1 #12	XHHW-2 GND.	3/4" C.
CP-75S-7	7	2 #6	1 #10	XHHW-2 GND.	3/4" C.
CP-75S-8	8	2 #6	1 #10	XHHW-2 GND.	3/4" C.
CP-75S-9	9	2 #6	1 #10	XHHW-2 GND.	3/4" C.
CP-75S-10	10	2 #6	1 #10	XHHW-2 GND.	3/4" C.
CP-75S-11	11	2 #10	1 #12	XHHW-2 GND.	3/4" C.
CP-75S-12	12	2 #12	1 #12	XHHW-2 GND.	3/4" C.
CP-75S-13	13	2 #10	1 #10	XHHW-2 GND.	3/4" C.
CP-75S-14	14	2 #10	1 #10	XHHW-2 GND.	3/4" C.
CP-75S-15	15	2 #10	1 #10	XHHW-2 GND.	3/4" C.
CP-75S-16	16	2 #10	1 #10	XHHW-2 GND.	3/4" C.

SEE DWG. #E-98. CONNECTION DIAGRAM

TEMPORARY CONDUIT

DIP INPUT

## NOTE:

- THIS DRAWING SHOWS BOTH STAGE II AND III WORK COMBINED. FOR SEPARATION OF WORK SEE NOTE #3 DWG. #E-53.
- FOR WORK IN ELECTRIC CLOSET "C" SEE DRAWING E-54, ONE LINE DIAGRAM
- FOR LOCAL CONTROL CABINET DETAILS SEE DRAWING E-107

I HEREBY CERTIFY THAT THIS IS A TRUE AND CORRECT COPY OF ONE OF THE CONTRACT DRAWINGS CONSTITUTING A PART OF CONTRACT NO. **WTC-802.071** IN THE FORM IN WHICH SAID DRAWINGS EXISTED AT THE TIME THE SAID CONTRACT WAS EXECUTED BY THE PARTIES.

DATE 6/21/95 Sultan A. Aslam  
 DATE 8/15/95 Peter K. Swamy  
 SPEC. WRITER  
 ENGINEER OF DESIGN

Sheet 143 of 224

THE PORT AUTHORITY  
OF NY & NJ

Peter K. Swamy  
 ENGINEERING PROGRAM MANAGER  
 WORLD TRADE CENTER  
 CHIEF ELECTRICAL ENGINEER

Engineering Department  
 Design Divisions

The World Trade  
 Center  
 Electrical/HVAC  
 Upgrade Program

Title  
 TOWER ONE AND TWO  
 LOW VOLTAGE  
 SUBSTATIONS  
 CONSTRUCTION AND  
 INSTALLATION  
 ELECTRICAL  
 SUBSTATION SS-75S  
 STAGE II AND III  
 75th FLOOR PLAN  
 CONTROL CDT. LAYOUT

No. Date Revision Approved

This drawing subject to conditions in contract. All inventions, ideas, designs and methods herein are reserved to Port Authority and may not be used without its written consent.

LEAHY/  
 FISCHER LEAHY A.S.  
 Designed by Drawn by Checked by

Date 5-1-95 Scale AS NOTED

Contract Number Drawing Number  
 WTC 802.071 E-57